

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001462**Date Inspected:** 20-Apr-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 2BE,OBG 2BW, Bikeway, Sub-Assembly**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

OBG 2BW

Adhesion testing was performed on the Interzinc 22 coated interior surfaces and the following values were observed: 1) 9.58Mpa 2) 7.73Mpa 3) 8.4Mpa 4) 9.07Mpa 5) 9.38Mpa 6) 10.83Mpa.

OBG 2BE

MEK testing was performed and all tests exhibited a 5 rating. Chloride testing was also performed and all tests were below 10ug/cm cure testing was performed using the quarter rub and pencil hardness was also performed.

Bikeway Brackets

Six bikeway brackets were re-blasted to base metal surfaces and re-coated with Interzinc 22. These units exhibited mud cracking due to excess film build after the "mist" coat was applied the deficiencies were apparent and complete removal was directed by ABF and International Protective Coatings technical service representative Zili Peng.

OBG 2BE

Mist coat was applied to the exterior surfaces of the segment. Mixing and spray operations were monitored by Peng ZiLi of International Protective Coatings.

Sub-Assemblies, Counterweight

Profile amplitude was 52-84um splice plates, cable tray assemblies, and angle iron base metal surfaces were abrasive blasted to SSPC SP-10 and Interzinc 22 applied to the surfaces.

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Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley. International Protective Coatings Zili Peng was also in attendance.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
